

Manufactured by:  
**TENNANT**  
 701 North Lilac Drive  
 P.O. Box 1452  
 Minneapolis, MN 55440-1452

# MATERIAL SAFETY DATA SHEET

## 409 Pre-Kote Cleaner



**EMERGENCY PHONE NUMBERS:**

CHEMTREC: (800) 424-9300 (24 hrs)  
 CANADA: CANUTEC (613) 996-6666 (24 hrs)

District of Columbia: (202) 483-7616 (24 hrs)  
 MSDS Requests: (800) 553-8033

**PREPARATION INFO:**

By: Kevin Hobbie (763) 540-1471 (days)  
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This Material Safety Data Sheet (MSDS) has been prepared in compliance with the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200. The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind expressed or implied is made with respect to the information contained herein.

Issue Date: May 18, 2010	<b>HAZARD RATING</b>	<b>NFPA</b>	<b>HMS</b>	<b>NFPA</b>	<b>HMS</b>	4 = Extreme	3 = High	0 = Insignificant
Supersedes: June 4, 2007	Health	3	3	Reactivity	0	2 = Moderate	1 = Slight	COR = Corrosive
Printed: 6/14/2010	Fire	1	1	Special	COR			X = Ask supervisor for guidance.

\*\*\*\*\* I. IDENTIFICATION \*\*\*\*\*

**PRODUCT NAME:** 409 Pre-Kote Cleaner

**US DEPT OF TRANSPORTATION (GROUND):**

**UN#:** UN1760

**PACKAGING GROUP:** II

**PART NUMBER:** 08694-5

**HAZARD CLASSIFICATION:** Corrosive

**CHEMICAL FAMILY:** Acid Cleaner

**SHIPPING NAME:** Corrosive Liquid, N.O.S.

**MATERIAL USE:** Concrete Etchant

(contains Hydrochloric and Hydroxyacetic Acid)

\*\*\*\*\* II. PHYSICAL DATA \*\*\*\*\*

<b>BOILING POINT:</b>	220°F / 104°C	<b>FREEZE POINT:</b>	0°F. / -18°C.
<b>DENSITY:</b>	1.2 kg/L	<b>% VOLATILE:</b>	97 by wt
<b>SOLUBILITY IN WATER:</b>	Complete	<b>VAPOR PRESSURE:</b>	Not Available mm Hg at 20 °C.
<b>ODOR THRESHOLD:</b>	Not Available	<b>pH:</b>	<0
<b>PHYSICAL FORM:</b>	Liquid	<b>VAPOR DENSITY:</b>	Not Available <b>THAN AIR</b>
<b>APPEARANCE AND ODOR:</b>	Orange/Vinegar	<b>COEFFICIENT WATER/OIL DISTRIBUTION:</b>	Not Available
<b>EVAPORATION RATE:</b>	Slower THAN N-BUTYL ACETATE	<b>VOC g/L (lb/gal):</b>	1248 (10.40)
<b>MECHANICAL IMPACT:</b>	Not Available	<b>STATIC DISCHARGE:</b>	Not Available

\*\*\*\*\* III. INGREDIENTS \*\*\*\*\*

All components are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory. Hazardous ingredients, defined as Controlled Products by Canadian WHMIS, are identified by (HSD) after the chemical ingredient. This product has been classified in accordance with the hazard criteria of the CPR (Controlled Products Regulations) and the MSDS contains all of the information required by the CPR.

<u>CHEMICAL</u>	<u>CAS #</u>	<u>% W</u>	<u>OSHA PEL ppm</u>	<u>ACGIH TLV TWA ppm</u>	<u>ACGIH TLV STEL ppm</u>	<u>LD50</u>	<u>LC50 INHALATION</u>
Carbitol Acetate	112-15-2	5-10	Not Available	Not Available	Not Available	11,000 mg/kg (oral rat) 15,000 mg/kg (skin rabbit)	Not Available
Hydrochloric Acid (HSD)	7647-01-0	5-10	5 (ceiling)	5 (ceiling)	Not Available	900 mg/kg (oral rat)	3124 ppm/1hr (rat)
Hydroxyacetic Acid (HSD)	79-14-1	30-40	3	3	Not Available	4240 mg/kg (oral rat)	7.7mg/L (4hr rat)
Nonionic Surfactant	9016-45-9	1-5	Not Available	Not Available	Not Available	3000 mg/kg (oral rat) >3 g/kg (skin rabbit)	Not Available

**SARA Title III Section 313 Information:** Components present in this product at a level which could require reporting under this statute are:

Carbitol Acetate - CAS #112-15-2 10% by wt.

**California Proposition 65 Information:** This product contains the following chemicals designated as cancer and/or reproductive hazards under California Proposition 65.

None

\*\*\*\*\* IV. FIRE AND EXPLOSIVE HAZARD DATA \*\*\*\*\*

**FLAMMABLE:** No **FLASH POINT:** 225°F / 107°C Setflash  
**FLAMMABLE LIMITS:** % LEL: Not Available % UEL: Not Available **AUTOIGNITION TEMPERATURE** Not Available / Not Available  
**EXTINGUISHING MEDIA:** Use National Fire Protection Association (N.F.P.A.) Class B extinguishers (carbon dioxide, dry chemical or foam).  
**SPECIAL FIRE FIGHTING PROCEDURES:**  
Do not splash contents. Contains strong acids. If containers split open, cover with mild alkali compounds such as soda ash. Wear self-contained breathing apparatus approved by NIOSH.  
**UNUSUAL FIRE EXPLOSION HAZARD:**  
Keep containers closed. Keep from heat. Will emit hazardous fumes when heated. Solutions in contact with soilages containing reactive metals (i.e., Aluminum, Magnesium, etc.), can produce potentially explosive concentrations of Hydrogen and Oxygen gas. Empty scrubber daily or raise hood after use to minimize explosion danger.

\*\*\*\*\* V. REACTIVITY DATA \*\*\*\*\*

**STABILITY:** Stable **HAZARDOUS POLYMERIZATION (May Occur/Will Not Occur):** Will Not  
**CONDITIONS TO AVOID:** Excessive heat, pressures on containers.  
**INCOMPATIBILITY (materials to avoid):** Alkalies, light metals, i.e., Al, Mg., Na; also cyanides and sulfides. Avoid oxidizing material, can oxidize to chlorine.  
**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon dioxide, carbon monoxide and small amounts of hydrogen chloride and phosgene when heated to decomposition.

\*\*\*\*\* VI. HEALTH HAZARD DATA \*\*\*\*\*

**EFFECTS OF OVEREXPOSURE:** **THRESHOLD LIMIT VALUE - See Section III for individual ingredients.**  
**PRIMARY ROUTES OF ENTRY:** Inhalation & Skin Contact  
**SKIN CONTACT/ABSORPTION:** Extremely corrosive. Expected to cause severe skin damage with severe burns and blistering, dermatitis & ulcers.  
**EYE CONTACT:** Extremely irritating with possible permanent eye injury. During application of this product, contact lenses should NOT be worn.  
**INGESTION (Swallowing):**  
Can cause severe damage to mucous membranes with tissue burns and blistering.  
**INHALATION (Breathing):**  
Under normal product use, inhalation exposure should be minimal. Contains materials which have the potential to cause headaches, nausea, dizziness and respiratory tract irritation upon inhalation of vapors heated to high temperatures.  
**SUPPLEMENTAL HEALTH INFORMATION:**  
All ingredients are NOT carcinogenic, based on the International Agency for Research on Cancer (IARC) and the National Toxicology Program (NTP) lists.

\*\*\*\*\* VII. EMERGENCY AND FIRST AID PROCEDURES \*\*\*\*\*

**SKIN CONTACT:** IMMEDIATELY wash exposed areas with soap and water for 15 minutes. Seek medical attention if irritation develops and persists. Wash clothing before reuse.  
**EYE CONTACT:** Flush immediately with water for 15 minutes; CALL A PHYSICIAN.  
**INGESTION (Swallowing):** CALL A PHYSICIAN OR POISON CONTROL CENTER. DO NOT attempt to induce vomiting. Drink large quantities of water or milk.  
**INHALATION (Breathing):** Remove to fresh air. Restore breathing if required. If breathing difficulty persists or occurs later, consult a physician.

\*\*\*\*\* VIII. PREVENTIVE MEASURES \*\*\*\*\*

**SPILL OR LEAK PROCEDURES** **STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**  
Keep spectators away. Floor may be slippery; use care to avoid falling. Dike and contain the spill with inert material (sand, earth, fuller's earth, etc.) and if appropriate, transfer the liquid and solid diking material to separate containers for recovery or disposal. Remove contaminated clothing promptly and wash affected skin areas with soap and water. Wash clothing before reuse. Keep spill out of all sewers and open bodies of water.  
**WASTE DISPOSAL METHOD:** Dispose of all excess coatings, packaging and other waste in accordance with federal, state and local regulations.  
**SPECIAL PROTECTION INFORMATION**  
**RESPIRATORY PROTECTION and VENTILATION:**  
Use with adequate ventilation. Do not breathe spray or mist. If used in a spray operation, wear a NIOSH TC 23C approved respirator. Local exhaust.  
**PROTECTIVE GLOVES (specify type):** Impervious gloves; i.e., rubber, nitrile **EYE PROTECTION (specify type)** Chemical splash goggles  
**SKIN PROTECTION:** Protective clothing, face shield, and rubber gloves.  
**SPECIAL PRECAUTIONS:** **PRECAUTIONS TO BE TAKEN IN HANDLING OR STORAGE:**  
Store inside in a cool (below 100°F or 37.5°C), dry place.  
**OTHER PRECAUTIONS:** Do not take internally. Avoid prolonged contact with skin; contaminated clothing should be removed immediately. Avoid free fall of liquid in excess of a few inches.